



**S R F Working Group**

**P R O J E C T X**

***INTERESTS AND CAPABILITIES OF  
CORNELL GROUP***



# TWO PART PROGRAM POSSIBILITIES BASED ON CU'S EXISTING INFRASTRUCTURE AND INTERESTS

*Support from NSF via DUSEL program*

## Part I (A 9 cell cavity testing program - could begin 09?)

- Joint program with ANL, FNAL, CU
  - Bulk EP at ANL (or ACCEL)
  - 600 C firing @ FNAL (or elsewhere) + tuning at FNAL
  - final processing + HPR and cold test at CU
  - - 2<sup>nd</sup> sound quench location + optical inspection + repair as appropriate
  - could do 10 per year
- Has been vetted by NSF - ok but on hold due to CR

## Part II (Vendor development participation)

- Could mentor 2 potential vendors
  - note: CU already assisting FNAL w. AES/Niowave
  - tested many single cells from AES in re new ebw
  - tested many Niowave single cells (found die prob)
  - industrialized/commercialized SR cavities w. ACCEL
- Propose
  - work closely with new vendors
  - - monitor all aspects of production (ebw, chemistry..)
  - - frequent visits to vendor
  - - test new vendor multicells/2<sup>nd</sup> sound for quench det.
  - - optical examine → vendor feedback

- Work w. AES to install and operate vertical EP
  - AES already has BCP prep area installed
  - AES has already prepared a cost estimate for transfer of EP technology
  - CU would first test single cell EP samples followed by 9 cells completed by AES